

Comparisons of Job Characteristics

Focus Occupation: [Mathematical Science Teachers, Postsecondary \(25-1022\)](#)

Associated Occupation: [Secondary School Teachers, Except Special and Career/Technical Education \(25-2031\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 74

Focus Occupation: Mathematical Science Teachers, Postsecondary (25-1022)

Associated Occupation: Secondary School Teachers, Except Special and Career/Technical Education (25-2031)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Education and Training	9.2	18.5	19.8	0	Current knowledge level may be sufficient
English Language	11.2	16.3	14.1	<	Expanded education and/or training may be required
Psychology	6.4	13.2	7.0	<<	Extensive education and/or training may be required
Sociology and Anthropology	4.1	10.7	4.5	<<	Extensive education and/or training may be required
History and Archeology	2.6	8.9	2.8	<<	Extensive education and/or training may be required
Philosophy and Theology	3.2	8.5	3.5	<<	Extensive education and/or training may be required
Geography	3.9	7.7	2.4	<<	Extensive education and/or training may be required
Fine Arts	2.2	7.2	1.8	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Mathematical Science Teachers, Postsecondary (25-1022)

Associated Occupation: Secondary School Teachers, Except Special and Career/Technical Education (25-2031)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Learning Strategies	7.2	15.4	12.3	<	A higher skill level may be required
Instructing	7.8	13.8	12.8	0	Current skill level may be sufficient

Social Perceptiveness	9.1	11.8	9.7	<	A higher skill level may be required
Coordination	9.1	11.6	8.6	<<	Extensive development of skills in this area may be required
Time Management	8.9	11.2	11.2	0	Current skill level may be sufficient
Systems Evaluation	6.4	9.8	9.3	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Mathematical Science Teachers, Postsecondary (25-1022)

Associated Occupation: Secondary School Teachers, Except Special and Career/Technical Education (25-2031)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Oral Expression	12.4	15.7	17.5	>	Current ability level is likely sufficient
Speech Recognition	9.9	13.6	9.2	<<	Extensive improvement in abilities may be required
Speech Clarity	10.2	13.5	16.2	>	Current ability level is likely sufficient
Deductive Reasoning	10.6	13.4	13.6	0	Current ability level may be sufficient
Originality	7.6	11.8	9.3	<	Some improvement in abilities may be required
Fluency of Ideas	7.6	10.7	9.1	<	Some improvement in abilities may be required
Memorization	5.6	7.6	7.7	0	Current ability level may be sufficient
Speed of Closure	5.9	7.6	5.5	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Mathematical Science Teachers, Postsecondary (25-1022)

Associated Occupation: Secondary School Teachers, Except Special and Career/Technical Education (25-2031)

Work Activities	Exclusivity of Activity
Advise students	49
Convert information into instructional program	38
Design classroom presentations	45
Develop course or training objectives	42
Develop instructional materials	38
Evaluate student performance	46
Maintain educational records, reports, or files	43
Make education presentations	46
Organize educational material or ideas	41

Prepare educational reports	44
Record student progress	46
Use computers to enter, access or retrieve educational data	46
Use interpersonal communication techniques	10
Use oral or written communication techniques	1
Use public speaking techniques	13
Use teaching techniques	29

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Mathematical Science Teachers, Postsecondary (25-1022)

Associated Occupation: Secondary School Teachers, Except Special and Career/Technical Education (25-2031)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.